

## AMENDMENTS TO THE CLAIMS

This listing of Claims shall replace all prior versions, and listings, of claims in the application:

### LISTING OF CLAIMS:

1-26. (Cancelled)

27. (New) A method of generating a project datasheet file, said method comprising:

- accessing data associated with a configuration of a manufactured programmable system on a chip;
- accessing a stylesheet associated with project datasheets; and
- processing said data according to said stylesheet to automatically generate a project datasheet file, wherein said project datasheet file comprises pinout assignment data for said manufactured programmable system on a chip, and wherein said project datasheet file further comprises configuration information for at least one user module implemented in response to a user input and implemented using a block of said manufactured programmable system on a chip.

28. (New) The method of Claim 27, wherein said data is formatted in XML, wherein said stylesheet comprises an XSL stylesheet, and wherein said method further comprises:

- formatting said project datasheet file in HTML; and
- rendering said project datasheet file for display using a browser.

29. (New) The method of Claim 27, wherein said block is selected from a group consisting of an analog block and a digital block.
30. (New) The method of Claim 27, wherein said data is selected from a group consisting of pinout information, schematics, connectivity information, parameters, block information, and signal information.
31. (New) The method of Claim 27 further comprising:  
displaying said project datasheet file, wherein said displaying comprises a single action display.
32. (New) The method of Claim 27, wherein said accessing said data comprises accessing said data from an XML database.
33. (New) The method of Claim 27, wherein said configuration information comprises information selected from a group consisting of user module parameters, block types, block locations, and global register values.
34. (New) The method of Claim 27 further comprising:  
in response to a user-initiated change to said configuration of said manufactured programmable system on a chip, accessing updated data associated with said configuration of said manufactured programmable system on a chip; and  
processing said updated data according to said stylesheet to automatically generate an updated project datasheet file.
35. (New) The method of Claim 34 further comprising:

in response to said processing, automatically displaying said updated project datasheet.

36. (New) A computer system comprising a processor and a memory, wherein said memory comprises instructions that when executed on said processor implement a method of generating a project datasheet file, said method comprising:

- accessing data associated with a configuration of a manufactured programmable system on a chip, wherein said data is formatted in XML;
- accessing a stylesheet associated with project datasheets; and
- processing said data according to said stylesheet to automatically generate a project datasheet file, wherein said project datasheet file comprises pinout assignment data for said manufactured programmable system on a chip, and wherein said project datasheet file further comprises configuration information for at least one user module implemented in response to a user input and implemented using a block of said programmable system on a chip.

37. (New) The computer system of Claim 36, wherein said data is formatted in XML, wherein said stylesheet comprises an XSL stylesheet, and wherein said method further comprises:

- formatting said project datasheet file in HTML; and
- rendering said project datasheet file for display using a browser.

38. (New) The computer system of Claim 36, wherein said block is selected from a group consisting of an analog block and a digital block.

39. (New) The computer system of Claim 36, wherein said data is selected from a group consisting of pinout information, schematics, connectivity information, parameters, block information, and signal information.

40. (New) The computer system of Claim 36, wherein said method further comprises:

displaying said project datasheet file, wherein said displaying comprises a single action display.

41. (New) The computer system of Claim 36, wherein said configuration information comprises information selected from a group consisting of user module parameters, block types, block locations, and global register values.

42. (New) The computer system of Claim 36, wherein said method further comprises:

in response to a user-initiated change to said configuration of said manufactured programmable system on a chip, accessing updated data associated with said configuration of said manufactured programmable system on a chip;

processing said updated data according to said stylesheet to automatically generate an updated project datasheet file; and

in response to said processing, automatically displaying said updated project datasheet.

43. (New) A computer readable medium comprising executable instructions which, when executed in a processing system, causes the system to perform a method of generating a project datasheet file, said method comprising:

accessing data associated with a configuration of a manufactured programmable system on a chip;  
accessing a stylesheet associated with project datasheets;  
processing said data according to said stylesheet to automatically generate a project datasheet file, wherein said project datasheet file comprises pinout assignment data for said manufactured programmable system on a chip, and wherein said project datasheet file further comprises configuration information for at least one user module implemented in response to a user input and implemented using a block of said manufactured programmable system on a chip.

44. (New) The computer readable medium of Claim 43, wherein said block is selected from a group consisting of an analog block and a digital block.

45. (New) The computer readable medium of Claim 43, wherein said data is selected from a group consisting of pinout information, schematics, connectivity information, parameters, block information, and signal information.

46. (New) The computer readable medium of Claim 43, wherein said method further comprises:

displaying said project datasheet file, wherein said displaying comprises a single action display.

47. (New) The computer readable medium of Claim 43, wherein said configuration information comprises information selected from a group consisting of user module parameters, block types, block locations, and global register values.

48. (New) The computer readable medium of Claim 43, wherein said method further comprises:

in response to a user-initiated change to said configuration of said manufactured programmable system on a chip, accessing updated data associated with said configuration of said manufactured programmable system on a chip;

processing said updated data according to said stylesheet to automatically generate an updated project datasheet file; and

in response to said processing, automatically displaying said updated project datasheet.

49. (New) A computer-implemented method for generating design information, said method comprising:

detecting a selection of a plurality of global parameters associated with a manufactured programmable system on a chip;

in response to a selection of a user module for configuring said manufactured programmable system on a chip, placing said user module within a plurality of programmable hardware resources of said manufactured programmable system on a chip;

in response to a selection of at least one parameter for said user module, establishing connections for said user module; and

automatically generating a project datasheet file comprising said information about said parameterized user module, said project datasheet file further comprising information about said connections and said global parameters associated with said parameterized user module, and wherein said

project datasheet file further comprises pinout assignment data for said manufactured programmable system on a chip.

50. (New) The method of Claim 49 further comprising:  
displaying said project datasheet file.

51. (New) The method of Claim 49, wherein said automatically generating said datasheet file further comprises:

- accessing project data from an XML database structure;
- accessing an XSL stylesheet directed to datasheets; and
- processing said project data according to said XSL stylesheet to automatically generate said datasheet file for said manufactured programmable system on a chip.